## " clyzo " - Monograph Comparison





AS PER CURRENT USP 2022/EP11/JP18								
	Product Name	2-Propanol (USP, BP, Ph. Eur.) pure, pharma grade	PanReac	Issue Date	March-23			
	Product Code	141090		Prepared by	Sr. Tech Lead			
	CAS NO.	67-63-0	AppliChem	Reviewed by	Manager Technical			
	Manufacturer Name	PanReac AppliChem	ITW Reagents	Version no.	CLYZO/PAN/141090/01			
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Sr No	Test	Manufacturer COA	Pharmacopeial Specifications					
51. 10.		Complies USP, BP, Ph. Eur	USP 2022	EP Version 11.0	JP 18			
1	Descriprion	Clear, colorless liquid, hygroscopic.Densirty	Transparent, colorless, mobile, volatile liquid,	Clear, colourless liquid.	Clear, colorless liquid. It has a characteristic			
		at 20 <sup>0</sup> C is about 0.785	having a characteristic odor and a slightly bitter taste. Is flammable.		odor.It is flammable and volatile.			
2	Solubility	Miscible with water, alcohol, ether and	Miscible with water, with alcohol, with ether,	Miscible with water and with ethanol (96 per cent).	It is miscible with water, with methanol, with			
		trichloromethane	and with chloroform		ethanol (95), and with diethyl ether			
3	Identification 1	Passes The Test	In the test of assay, the retention time of the major peak of the Sample solution corresponds to the 2-propanol peak of the System suitability solution,	Relative density should be between 0.785 and 0.789	Should comply by yellow precipitate formation			
4	Identification 2	Passes The Test	Should comply by methanol test	Refractive index shoul,d be between 1.376 and 1.379.	Should comply by producing a gas which has odor of acetone, and the gas turns the filter paper to redbrown.			
5	Identification 3	Passes The Test	The infrared absorption spectrum obtained with sample should be concordant with the spectrum obtained with Isopropyl alcohol reference/working standard	The infrared absorption spectrum obtained with sample should be concordant with the spectrum obtained with Isopropyl alcohol reference/working standard	Not mentioned			
6	Identification 4	Passes The Test	Not mentioned	Should comply by the entire sulfuric acid layer turning violet.	Not mentioned			
7	Clarity of solution/Appearance of solution	Passes The Test	Not mentioned	Sample solution should be clear and colourless	Sample solution should be clear			
8	Acidity or alkalinity	Passes The Test	NMT 0.70 mL of 0.020 N NaOH is required for neutralization.	NMT 0.6 ml of 0.01 M NaOH is required to change the colour of the indicator to pale pink.	After addition of 0.40 ml of 0.01 M NaOH a red color should be developed			
9	Specific Gravity	Between 0.783 and 0.787 (at 25 <sup>0</sup> C) Between 0.785 and 0.789 (at 20 <sup>0</sup> C)	Between 0.783 and 0.787	Not mentioned	Between 0.785 and 0.788			
10	Refractive index	Between 1.376 and 1.378	Between 1.376 and 1.378	Not mentioned	Not mentioned			
11	Non Volatile Residue	NMT 0.002%	NMT 0.005%	NMT 20 ppm	NMT 0.005%			
12	Distilling Range	Not mentioned	Not mentioned	Not mentioned	NLT 94% should distill between 81°C and 83°C			
13	Absorbance	NMT 0.30 at 230 nm, 0.10 at 250 nm, 0.03 at 270 nm, 0.02 at 290 nm and 0.01 at 310 nm.	Not mentioned	NMT 0.30 at 230 nm, 0.10 at 250 nm, 0.03 at 270 nm, 0.02 at 290 nm and 0.01 at 310 nm.	Not mentioned			
14	Peroxidex	Passes The Test	Not mentioned	No colour should developes	Not mentioned			
15	Benzene and related subastances/Volatile impurities	Benzene: NMT 2 ppm Ethanol: NMT 0.05% Total impurities: NMT 0.3%	Methanol : NMT 0.02% Individual known impurity: NMT 0.1% Maximum unknown impurity: NMT 0.1% Total impurities: NMT 1.0%	Benzene: NMT 2 ppm Total of impurities apart from 2-butanol : NMT 0.3%	Not mentioned			

16	Related Substances	Methanol : NMT 0.02%	Not mentioned	Not mentioned	Not mentioned				
		Diethyl Ether : NMT 0.1%							
		Acetone: NMT 0.1%							
		Di-isopropyl Ether: NMT 0.1%							
		1-propanol: NMT 0.1%							
		2-Butanol: NMT 0.1%							
		Individual known impurity: NMT 0.1%							
		Total impurities: NMT 1.0%							
17	Water	NMT 0.5%	NMT 0.5%	NMT 0.5%	NMT 0.75%				
18	Assay (C3H8O)	NLT 99.5%	NLT 99.0%	Not mentioned	Not mentioned				
	Elemental Impurities		Not mentioned	Not mentioned	Not mentioned				
	Cd	NMT 0. 5 ppm	1						
	Pb	NMT 0.5 ppm	1						
	As	NMT 1.5 ppm							
	Hg	NMT 1.5 ppm							
	со	NMT 5 ppm							
	V	NMT 10 ppm							
	Ni	NMT 20 ppm							
	ті	NMT 0.8 ppm							
	Au	NMT 10 ppm							
	Pd	NMT 10 ppm							
	Ir	NMT 10 ppm							
19	Os	NMT 10 ppm							
	Rh	NMT 10 ppm							
	Ru	NMT 10 ppm							
	Se	NMT 15 ppm							
	Ag	NMT 15 ppm							
	Pt	NMT 10 ppm							
	Li	NMT 55 ppm							
	Sb	NMT 120 ppm							
	Ва	NMT 140 ppm	1						
	Мо	NMT 25 ppm							
	Cu	NMT 250 ppm	1						
	Sn	NMT 600 ppm	1						
	Cr	NMT 25 ppm	1						
20	Residual solvents	Passes The Test	Not mentioned	Not mentioned	Not mentioned				
	Storage	Storage below 25°C. Storage away from	Preserve in tight containers, and prevent	Protected from light.	Tight containers away from fire				
		direct light.	exposure to excessive heat. Protect from						
			light.						
Note - If you need any additional testing, you may use our Additional Testing Feature on the product page or contact your Clyzo reprensentive.									
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